PROPOSAL	
on	
AGENTS FOR FUELS AND LU	BRICANTS

It is well known that a great deal of constructive work has been done through recent years on the development of numerous agents that improve the performance characteristics of fuels and lubricants. This research and development work has almost invariably been directed toward the use of agents that would improve operating conditions, and it would appear that much useful information could be gained if some work could be directed toward agents that would have very harmful effects on engines.

Such procedure is utilized in many fields of research, but has not been used to any extent in the fuels and lubricants fields. A great deal of most valuable information could be gained that would indicate whole new avenues of approach to the development of fuels and lubricants. In other words, fundamental information on what causes complete seizure of engines and even their destruction will be useful in many directions.

Such a program would involve not only chemical agents that could be used in the fuels and lubricants but also materials that would act as catalysts. In the case of catalysts, a very minor amount of material could possibly cause chemical reactions in the fuels or lubricants that would materially change their characteristics. It would seem that a thorough investigation of both types of materials would be exceedingly useful.

It is proposed that such fundamental research and engine laboratory studies be undertaken as an sponsored project. By so doing, would be developing valuable information with reference to fuels and lubricants and their relationship to engines of all types.

It would seem that there are three categories of materials involved as follows: (1) Diesel fuel; (2) Gasoline fuels; and (3) Lubricants.

proposes that this investigation be initiated by two task programs as follows:

Task I. This initial program would involve a careful review of all existing information with reference to agents and catalysts in diesel and gasoline fuels as well as lubricants. The purpose of this task would be to open up the most promising avenues for further and intensive investigation.

It is estimated that Task I would require four months of time by two competent fuels and lubricants chemists.

An estimate of cost of Task I would be as follows:

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1.	Two chemists 4 months @ average salary rate of \$8000/yr	50X
2. 3.	Scientific supervision (part time)	
4.	Total direct salaries	
5.	Travel (approximate)	1
6.	Supplies (approximate)	
7.	Total	1
8.	Fixed fee (6%) to reimburse for operating costs	50X1
	excluded from official audited rate	- n
9•	TOTAL FOR TASK I	1-240A
The mad ter of pro	Ind involve a study and testing in engines of the most promisist most promising catalysts or chemical agents would be developed of their effectiveness by running in engines. It is difficult mine the costs of such a program or the time required, but for well advancing the study it is suggested that eight months of wided to make up a period of one year including the time for the eral estimate of cost for Task II would be as follows:	ed and studies ult to de- r purposes time be
1.	Principal investigator (full time) for 8 months at a salary of \$9000/yr	50X1
2.	One chemist 8 months @ average salary rate of \$8000/yr	•
3.	Analytical chemist services for 8 months	•
4.	Engine operator 8 months (half time) @ salary of \$4800/yr.	
5.	Total direct salaries	•
6.	Official audited overhead rate (90%)	•
7.	Small engines, expendable equipment, parts and supplies	
8.		
9.	Total	
10.	Fixed fee (6%) to reimburse for operating costs	50X1
	excluded from official audited rate	•
11.	TOTAL FOR TASK II	2-242C
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	is prepared to assign personnel to this program im	mediately.